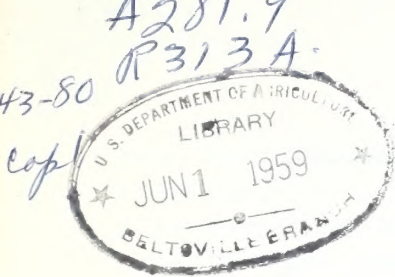


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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Service

LIVESTOCK-PRODUCTION UNITS, ANNUAL 1910-56 1/

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It is frequently necessary to estimate the quantity of feed needed for a given volume of livestock production (meat, milk, eggs, and so on) at the national level. Livestock-production units can be used for this purpose. They are computed by multiplying the production of each livestock product by a factor representing the feed needed per unit of product, then adding to get the total of all livestock-production units. The total number of production units can be related to the total feed consumed by all livestock for a series of years. By this means a factor is obtained that can be used in estimating the feed needed in some future year.

This procedure is similar to that in which feed needs at the national level are estimated from the number of animal units. 2/ But it is a better measure for a given period of time because livestock-production units are more closely related to trends in feed consumption than are animal units. (See figures 1 and 2.)

Production units are calculated from Department of Agriculture estimates of annual production of milk and eggs and annual live-weight production of hogs, cattle, sheep, chickens, broilers, and turkeys. The numbers of horses and mules on farms on January 1 and the number of goats clipped during the year are used to complete the livestock picture. As the production units are to be related to national feed supplies and consumption, both of which are reported for the year beginning October 1, production units

1/ This report supersedes Livestock Production Units, 1910-55, U. S. Agr. Res. Serv., ARS 43-62.

2/ See Animal Units of Livestock Fed Annually, 1909 to 1957, U. S. Dept. Agr. Statis Bul., 12 pp., illus., 1958. (In Press.)

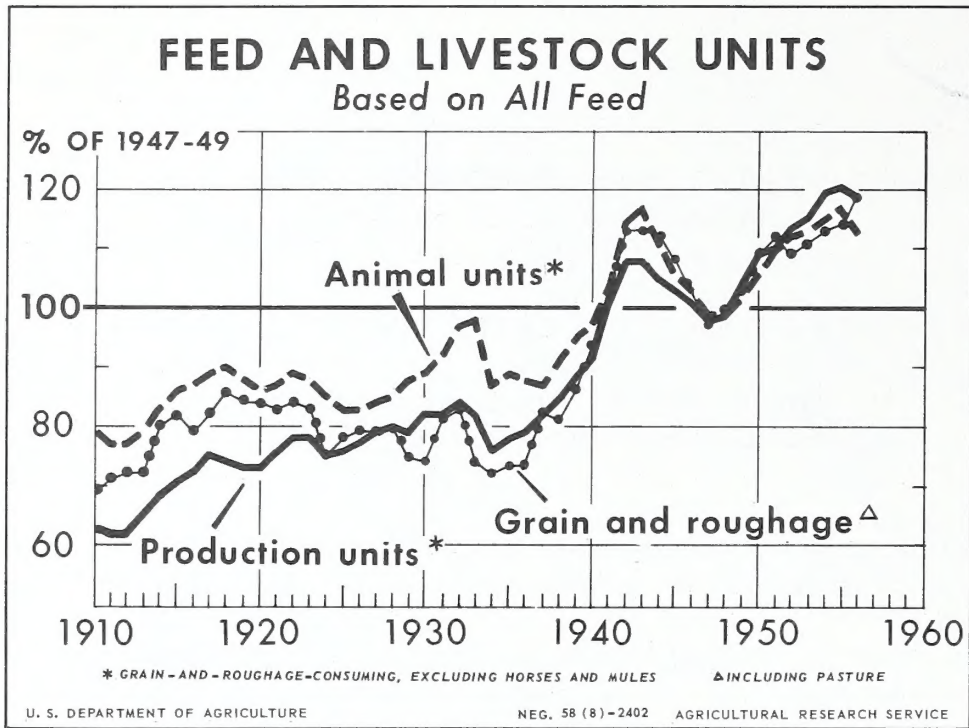


Figure 1

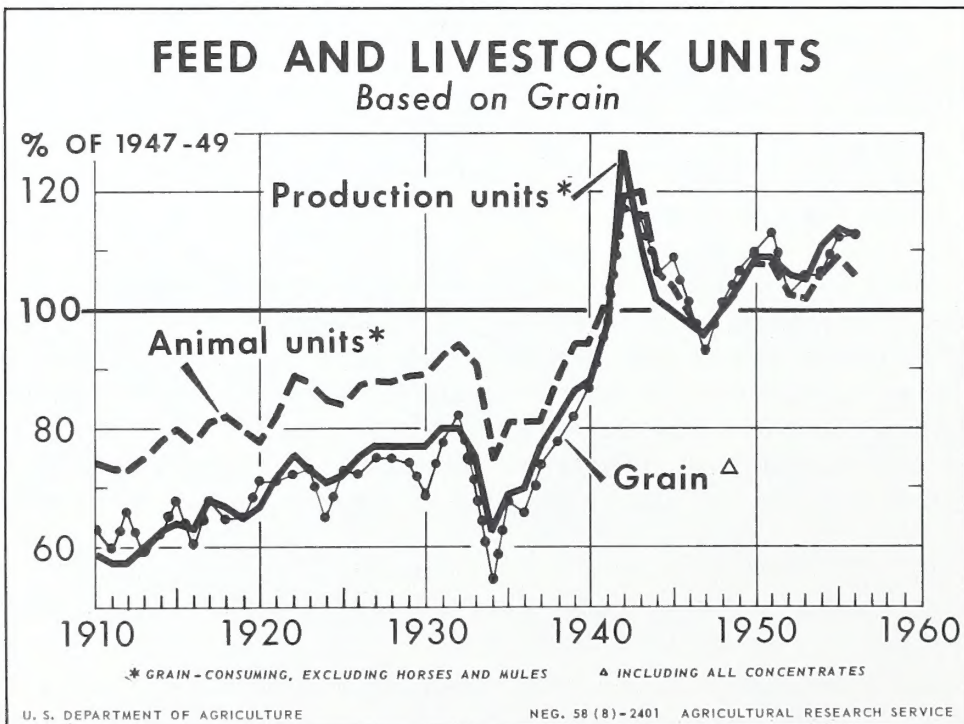


Figure 2

also were calculated for the year beginning October 1. To do this, the production for each of the principal kinds of livestock was computed for the year beginning October 1 (table 1). Monthly production data for milk and eggs are reported by the Department, but only calendar-year data are reported for live-weight production of hogs, cattle, sheep, and poultry. The calendar-year production of broilers and turkeys was used without adjustment. The number of chickens raised in the calendar year multiplied by the average weight of all chickens sold was used for production of farm chickens. (Chickens raised are mainly for replacements in laying flocks.)

The calendar-year production data for cattle and sheep were adjusted to the October 1 year by adding 25 percent of the production in one year to 75 percent of the production in the succeeding year, after adjusting production of cattle in the calendar year for changes in numbers of milk cows. The estimated gain in grain-fattened cattle was computed by multiplying the number of cattle on feed January 1 by factors, from 1.3 to 1.5 before 1945 and 1.7 in recent years, to give the total number of cattle put on feed in the year. This number was then multiplied by the gain per head, which was assumed to increase gradually from 325 pounds per head in 1930 to 440 pounds in recent years. The difference between the gain in "grain-fattened" cattle and live-weight production of "all" cattle is the gain in "other" cattle. A different factor is used for each of these classes of cattle to determine production units.

Data on live-weight production of hogs are obtained by estimating production for the calendar year by quarters of the year, as shown in table 2 for 1957. The number of hogs on farms January 1, the pig crop, and the death loss are used in estimating the annual production. The production from each group of hogs is distributed to the different quarters of the year by means of the percentages shown in table 3.

One hundred percent of the gain in weight of spring pigs on hand on January 1 is credited to the first quarter of the year, as most of these pigs are marketed then. The gain in weight made after January 1 by the fall pigs on hand on January 1 is distributed thus - 55 percent to the first quarter, 35 percent to the second quarter, and 10 percent to the third quarter, in accordance with the estimated gain of these pigs during each quarter. Sows and gilts on farms on January 1 are assumed to gain 125 pounds each during the ensuing year. This gain in weight is credited to the respective quarters in accordance with their estimated gains during the quarter. It was assumed that two-thirds of the sows and gilts on January 1 were gilts.

In the same way, estimates are made of the gain in each quarter by the spring and fall pigs farrowed during the calendar year. More than half

Table 1. - Data for computing annual livestock-production units, 1910-56

Year beginning October 1	Live-weight production										Other production		Horses and mules Jan. 1 ^{2/}		Goats clipped 1/
	Cattle					Poultry 1/					Eggs		Colts		
	Hogs	Grain- fatted cattle	Other cattle	All cattle except milk cows	Sheep and lambs	Farm chick- ens	Broil- ers	Turkeys	Milk	Eggs	Million pounds	Million pounds	1,000 head	1,000 head	
Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	Million pounds	1,000 head	1,000 head	1,000 head	
1910-----	12,400	---	---	12,800	1,134	2,240	---	---	65,700	29,100	20,301	4,546	---	---	
1911-----	12,100	---	---	12,000	1,238	2,220	---	---	66,400	28,400	20,569	4,708	---	---	
1912-----	12,200	---	---	12,200	1,209	2,230	---	---	67,500	28,100	20,846	4,845	---	---	
1913-----	12,500	---	---	13,100	1,250	2,300	---	---	69,200	27,900	21,247	4,931	---	---	
1914-----	13,600	---	---	14,400	1,258	2,230	---	---	70,700	29,700	21,562	4,931	---	---	
1915-----	13,700	---	---	15,400	1,152	2,170	---	---	72,000	28,900	21,694	4,840	---	---	
1916-----	13,100	---	---	16,400	1,124	2,200	---	---	73,200	27,800	22,003	4,656	---	---	
1917-----	14,300	---	---	17,000	1,210	2,850	---	---	73,800	28,000	22,370	4,353	---	---	
1918-----	14,200	---	---	16,700	1,167	2,280	---	---	73,800	30,200	22,576	3,914	---	---	
1919-----	13,600	---	---	16,200	980	2,230	---	---	75,400	29,800	22,386	3,356	2,367	2,528	
1920-----	14,000	---	---	15,600	1,091	2,400	---	---	77,600	30,700	22,348	2,789	2,528	2,528	
1921-----	15,900	---	---	15,500	1,096	2,530	---	---	80,600	32,700	22,271	2,317	2,528	2,528	
1922-----	16,900	---	---	15,000	1,210	2,640	---	---	83,300	34,800	22,050	1,968	2,528	2,528	
1923-----	15,800	---	---	14,400	1,407	2,516	---	---	88,200	34,600	21,578	1,707	2,528	2,528	
1924-----	14,600	---	---	13,125	1,496	2,580	---	---	90,400	34,900	21,038	1,531	2,528	2,528	
1925-----	14,600	---	---	12,800	1,584	2,728	---	---	92,700	36,984	20,490	1,496	3,124	3,124	
1926-----	15,400	---	---	12,250	1,650	2,850	---	---	94,710	38,475	19,765	1,427	3,124	3,124	
1927-----	16,500	---	---	12,100	1,746	2,660	---	---	95,675	38,339	19,120	1,328	3,124	3,124	
1928-----	16,000	---	---	12,250	1,810	2,854	---	---	98,201	38,148	18,514	1,230	3,124	3,124	
1929-----	15,300	1,416	---	12,525	1,929	2,875	---	---	99,463	38,818	17,981	1,143	4,241	4,241	
1930-----	15,600	1,376	12,149	13,525	2,030	2,694	---	---	102,097	38,209	17,375	1,093	4,241	4,241	
1931-----	16,500	1,350	11,825	13,175	1,885	2,870	---	---	103,789	37,101	16,822	990	4,241	4,241	
1932-----	16,800	1,445	12,855	14,300	1,852	2,850	---	---	104,657	35,516	16,404	933	4,241	4,241	
1933-----	15,000	1,396	13,654	15,050	1,898	2,447	97	---	102,458	34,450	15,984	1,013	4,241	4,241	
1934-----	10,600	1,070	13,530	14,600	1,854	2,566	123	---	101,468	33,190	15,473	1,210	3,916	3,916	

1935-----	: 12,000	1,591	13,184	14,775	1,848	2,788	152	405	101,505	34,343	14,839	1,387	3,715
1936-----	: 12,800	1,371	12,779	14,150	1,912	2,404	196	376	102,711	37,202	14,330	1,472	3,774
1937-----	: 15,100	1,705	12,195	13,900	2,011	2,539	240	395	104,781	36,970	13,690	1,555	3,918
1938-----	: 15,900	1,808	12,842	14,650	2,031	2,718	306	494	106,764	38,441	13,273	1,519	4,068
1939-----	: 17,600	2,044	13,156	15,200	2,083	2,599	414	502	109,081	39,494	13,000	1,478	4,297
1940-----	: 16,900	2,134	13,916	16,050	2,213	3,055	560	512	113,888	40,951	12,651	1,453	4,542
1941-----	: 19,400	2,256	15,244	17,500	2,298	3,545	674	522	118,565	47,498	12,346	1,309	4,322
1942-----	: 24,100	2,225	16,275	18,500	2,159	4,204	833	509	117,754	53,880	12,117	1,114	4,276
1943-----	: 23,600	2,062	17,388	19,450	1,980	3,578	790	584	116,238	57,850	11,668	945	4,109
1944-----	: 18,800	2,265	18,110	20,375	1,918	3,827	1,107	740	120,141	56,276	11,116	834	4,291
1945-----	: 18,900	2,387	17,413	19,800	1,800	3,247	884	714	117,661	54,468	10,434	675	3,939
1946-----	: 18,300	2,451	17,599	20,050	1,615	3,164	936	611	117,785	55,085	9,578	551	3,672
1947-----	: 18,400	2,379	16,921	19,300	1,429	2,767	1,127	574	112,593	54,281	8,800	479	3,164
1948-----	: 18,600	2,638	16,587	19,225	1,304	3,102	1,570	769	115,025	54,803	8,074	424	2,558
1949-----	: 19,800	2,766	18,109	20,875	1,322	2,790	1,944	817	116,694	58,720	7,415	366	2,530
1950-----	: 21,100	2,906	19,994	22,900	1,363	2,804	2,415	950	117,052	57,721	6,732	304	2,472
1951-----	: 20,600	3,345	20,880	24,225	1,446	2,525	2,624	1,049	113,507	57,809	5,887	263	2,287
1952-----	: 18,600	3,536	22,914	26,450	1,522	2,576	2,907	1,008	118,987	57,436	5,166	237	2,337
1953-----	: 17,400	3,756	24,019	27,775	1,590	2,430	3,236	1,161	122,018	58,382	4,572	219	2,618
1954-----	: 19,400	4,328	23,904	28,232	1,614	2,171	3,350	1,090	122,316	59,603	4,101	208	2,983
1955-----	: 19,500	4,398	23,677	28,075	1,579	2,154	4,270	1,274	125,092	60,281	3,728	200	3,164
1956-----	: 18,800	4,538	23,142	27,680	1,536	1,896	4,693	1,351	126,188	61,076	3,380	194	3,246

1/ Production for the calendar year following October 1.

2/ On January 1 following October 1.

Table 2.- Estimating the live-weight production of hogs by quarters, 1957

Item	Number of hogs	Weight per head			Gain in weight	Total live weight produced			
		Begin- ning of year	When slaugh- tered	End of year		Calen- dar year	January to March	April to June	July to Septem- ber
	Million head	Pounds	Pounds	Pounds	Pounds	Million pounds	Million pounds	Million pounds	Million pounds
Hogs on farms Jan. 1:									
Spring pigs-----	10.5	200	1/230	---	---	315	315	---	---
Fall pigs-----	33.0	65	2/220	---	---	5,115	2,813	1,790	---
Sows-----	2.7	---	---	---	125	337	152	117	51
Gilts 3/-----	5.5	---	---	---	125	688	310	241	103
									34
Hogs on farms Dec. 31									
from current pig crop:									
Spring pigs-----	9.5	---	---	200	---	1,900	---	190	665
Fall pigs-----	33.3	---	---	65	---	2,164	---	108	433
Gilts 3/-----	5.8	---	---	200	---	1,160	---	116	406
Deaths in year-----	9.5	---	---	---	---	---	---	---	---
Hogs sold or unaccounted for-----	30.2	---	4/224	---	---	6,765	338	1,353	2,368
									2,706
Live weight produced as calculated-----									
Live weight produced as reported by AMS-----									
Live weight produced by quarters adjusted to AMS-----									
						18,444	3,928	3,915	4,538
						18,617	---	---	---
						18,617	3,965	3,951	4,581
									6,120

- 1/ Average weight of barrows and gilts at 8 markets, January through March.
 2/ Average weight of barrows and gilts at 8 markets, April through September.
 3/ 2/3 of sows and gilts were assumed to be gilts.
 4/ Average weight of barrows and gilts at 8 markets, October through December.

Table 3. - Estimated percentage of annual production made in each quarter

Item	January- March	April- June	July- September	October- December
	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>	<u>Percent</u>
Hogs on farms Jan. 1:				
Spring pigs -----	100	---	---	---
Fall pigs -----	55	35	10	---
Sows and gilts -----	45	35	15	5
Current pig crop, on farms Dec. 31:				
Spring pigs -----	---	10	35	55
Fall pigs -----	---	5	20	75
Gilts -----	---	10	35	55
Other hogs sold -----	5	20	35	40

of the calendar-year pig crop is still "on farms, December 31." The rest are included in death loss or have been marketed (table 2).

The percentages shown in table 2 have been used since 1952. From 1938 to 1952, a different set of percentages was used, which tended to concentrate more production in the October to December quarter. Before 1938, a still different set of percentages was used and concentration in the October to December quarter was even greater. A similar change appears over the years in the disappearance of concentrate feeds by quarters, as reported by the Agricultural Marketing Service, especially in the feed available for hogs after reasonable allowance has been made for each of the other kinds of livestock. The live-weight production of hogs is computed by taking the calendar-year production, subtracting the production in the October to December quarter of that year, and adding the production in the October to December quarter of the preceding year. These are the production figures for hogs given in table 1.

The numbers of horses and mules 2 years old and over and of colts on farms on January 1 within the feeding year were used to compute

production units for these livestock, as no data are available to show the amount of work done. The numbers of goats clipped during the year were used to compute production units for goats.

Two factors are used in computing livestock-production units, one for concentrates and another for all feed (table 4). The feed fed to the average milk cow during the period 1940-45 is taken as 1.0. This is the same period as that used in computing animal units. 3/ The average annual milk production per cow during the period was 4,380 pounds. The grain fed to produce this amount of milk was 1,342 pounds, or 307 pounds per 1,000 pounds of milk produced. In terms of all feed consumed, the average dairy cow consumed 4,981 feed units per year or 1,138 feed units per 1,000 pounds of milk produced. 4/ The livestock-production units from grain and other concentrates and from all feed are given in tables 5 and 6.

Index numbers of livestock-production units excluding horses and mules, animal units fed, feed consumed, and all livestock and livestock products are shown in table 7. The index of livestock-production units from all feed has agreed closely in recent years with the index of all livestock and livestock products. Comparisons of indexes of livestock-production units, animal units, and feed units consumed appear in figures 1 and 2. Livestock production during 4-1/2 decades has increased a great deal more than has the number of animal units and somewhat more than the total quantity of feed consumed. This trend is continuing with a greater increase in total feed efficiency. The quantity of concentrates used to produce a given quantity of livestock product has changed very little (table 7). Apparently, most of the increase in total feed efficiency is due to feeding an increasing proportion of concentrates in relation to forage. Although the efficiency with which broilers use feed has increased markedly, the increase has affected the overall efficiency of production of livestock products very little.

The level of concentrates fed per livestock-production unit has been relatively constant since 1920 (table 8). All feed consumed per production unit excluding horses and mules is given in table 9. It shows a decline from 1920 to 1930, below-average amounts consumed during the depression and droughts of the 1930's, above-average amounts consumed during World War II, and decreases in amounts consumed in recent years. The overall decrease in feed per unit of production in 40 years is about one-half of 1 percent a year. However, pasture was a much larger percentage of all feed before 1925 than it has been in recent years. This lowered percentage accounted for most of the decrease in all feed per unit of production.

3/ See footnote 2.

4/ A feed unit is the equivalent in feeding value of one pound of corn.

Table 4. - Factors for computing livestock-production units

Item	Unit	Livestock production units -			
		From grain		From all feed	
		Concentrates:	Factor	All feed:	Factor
		fed per unit		consumed per unit	
		<u>Pounds 1/</u>		<u>units 1/</u>	
On farm Jan. 1:					
Milk cows <u>2/</u> -----	Head	1,342	1.0	4,981	1.0
Horses and mules 2 years old and over -----	do.	1,707	1.27	5,130	1.03
Colts -----	do.	345	.26	3,478	.70
Goats clipped -----	do.	---	---	765	.15
Live weight produced:					
Grain-fattened cattle-----	Cwt.	567	.42	914	.18
Other cattle -----	do.	33	.025	732	.15
Sheep and lambs -----	do.	113	.08	1,969	.39
Hogs -----	do.	477	.36	545	.11
Chickens raised-----	do.	519	.39	568	.11
Broilers-----	do.	316	.23	362	.07
Turkeys-----	do.	579	.43	677	.13
Milk -----	1,000 pounds	307	.23	1,138	.23
Eggs -----	1,000 eggs	601	.45	633	.13

1/ The average feed consumption of the years 1940-1945 was taken as the base period except that 1950-1953 was taken for broilers. These are the same periods used in computing animal units in U. S. Dept. Agr. Statis. Bul. 215.

2/ The average milk production per cow on farm January 1 for 1940-1945 was 4,380 pounds.

1935-----	: 23, 346	6, 682	3, 296	1, 478	43, 200	15, 454	10, 873	350	1, 742	18, 846	361	125, 628	106, 421
1936-----	: 23, 624	5, 758	3, 195	1, 530	46, 080	16, 741	9, 376	451	1, 617	18, 199	383	126, 954	108, 372
1937-----	: 24, 100	7, 161	3, 049	1, 609	54, 360	16, 636	9, 902	552	1, 698	17, 386	404	136, 857	119, 067
1938-----	: 24, 556	7, 594	3, 210	1, 625	57, 240	17, 298	10, 600	704	2, 124	16, 857	395	142, 203	124, 951
1939-----	: 25, 089	8, 585	3, 289	1, 666	63, 360	17, 772	10, 136	952	2, 159	16, 510	384	149, 902	133, 008
1940-----	: 26, 194	8, 963	3, 479	1, 770	60, 840	18, 428	11, 914	1, 288	2, 202	16, 067	378	151, 523	135, 078
1941-----	: 27, 270	9, 475	3, 811	1, 838	69, 840	21, 374	13, 826	1, 550	2, 245	15, 679	340	167, 248	151, 229
1942-----	: 27, 083	9, 345	4, 069	1, 727	86, 760	24, 246	16, 396	1, 916	2, 189	15, 389	290	189, 410	173, 731
1943-----	: 26, 735	8, 660	4, 347	1, 584	84, 960	26, 032	13, 954	1, 817	2, 511	14, 818	246	185, 664	170, 600
1944-----	: 27, 632	9, 513	4, 528	1, 534	67, 680	25, 324	14, 925	2, 546	3, 182	14, 117	217	171, 198	156, 864
1945-----	: 27, 062	10, 025	4, 396	1, 440	68, 040	24, 511	12, 663	2, 033	3, 070	13, 251	176	166, 667	153, 240
1946-----	: 27, 091	10, 294	4, 400	1, 292	65, 880	24, 788	12, 340	2, 153	2, 627	12, 164	143	163, 172	150, 865
1947-----	: 25, 896	9, 992	4, 230	1, 143	66, 240	24, 426	10, 791	2, 592	2, 468	11, 176	125	159, 079	147, 778
1948-----	: 26, 456	11, 080	4, 147	1, 043	66, 960	24, 661	12, 098	3, 611	3, 307	10, 254	110	163, 727	153, 363
1949-----	: 26, 840	11, 617	4, 527	1, 058	71, 280	26, 424	10, 881	4, 471	3, 513	9, 417	95	170, 123	160, 611
1950-----	: 26, 922	12, 205	4, 998	1, 090	75, 960	25, 974	10, 936	5, 554	4, 085	8, 550	79	176, 353	167, 724
1951-----	: 26, 107	14, 049	5, 220	1, 157	74, 160	26, 014	9, 848	6, 035	4, 511	7, 476	68	174, 645	167, 101
1952-----	: 27, 367	14, 851	5, 728	1, 218	66, 960	25, 846	10, 046	6, 686	4, 334	6, 561	62	169, 659	163, 036
1953-----	: 28, 064	15, 775	6, 005	1, 272	62, 640	26, 272	9, 477	7, 443	4, 992	5, 806	57	167, 803	161, 940
1954-----	: 28, 133	18, 178	5, 976	1, 291	69, 840	26, 821	8, 467	7, 705	4, 687	5, 208	54	176, 360	171, 098
1955-----	: 28, 771	18, 472	5, 919	1, 263	70, 200	27, 126	8, 401	9, 821	5, 478	4, 735	52	180, 238	175, 451
1956-----	: 29, 023	19, 060	5, 786	1, 229	67, 680	27, 484	7, 394	10, 794	5, 809	4, 293	50	178, 602	174, 259

^{1/} Includes grain-fattened cattle 1910 to 1928. The same relation was assumed between live-weight production of all cattle and calves, except milk cows, and production units from 1910 to 1928 as existed in 1929-33.

Table 6.- Livestock-production units from all feed, 1910-56

Year beginning October 1	Milk cattle	Grain- fattened cattle	Other cattle except milk cows 1/2	Sheep and lambs	Goats	Hogs	Eggs	Farm chick- ens raised	Broil- ers	Turkeys	Horses and mules	Total exclud- ing horses and mules
	1,000 units	1,000 units	1,000 units	1,000 units	1,000 units	1,000 units	1,000 units	1,000 units	1,000 units	1,000 units	1,000 head	1,000 units
1910-----	15,111	---	21,120	4,423	---	13,640	3,783	2,464	---	---	20,910	84,633
1911-----	15,272	---	19,800	4,828	---	13,310	3,692	2,442	---	---	21,186	83,826
1912-----	15,525	---	20,130	4,715	---	13,420	3,653	2,453	---	---	21,471	84,759
1913-----	15,916	---	21,615	4,875	---	13,750	3,627	2,530	---	---	21,884	87,649
1914-----	16,261	---	23,760	4,906	---	14,960	3,861	2,453	---	---	22,209	91,862
1915-----	16,560	---	25,410	4,493	---	15,070	3,757	2,387	---	---	22,345	93,410
1916-----	16,836	---	27,060	4,384	---	14,410	3,614	2,420	---	---	22,663	94,646
1917-----	16,974	---	28,050	4,719	---	15,730	3,640	3,135	---	---	23,041	98,336
1918-----	16,974	---	27,555	4,551	---	15,620	3,926	2,508	---	---	23,253	97,127
1919-----	17,342	---	26,730	3,822	355	14,960	3,874	2,453	---	---	23,057	94,942
1920-----	17,848	---	25,740	4,255	379	15,400	3,991	2,640	---	---	23,018	95,223
1921-----	18,538	---	25,575	4,274	338	17,490	4,251	2,783	---	---	22,939	97,810
1922-----	19,159	---	24,750	4,719	346	18,590	4,524	2,904	---	---	22,712	99,082
1923-----	20,286	---	23,760	5,487	382	17,380	4,498	2,768	---	---	22,225	97,981
1924-----	20,792	---	21,656	5,834	385	16,060	4,537	2,838	---	---	21,669	94,843
1925-----	21,321	---	21,120	6,178	469	16,060	4,808	3,001	---	---	21,105	95,109
1926-----	21,783	---	20,212	6,435	490	16,940	5,002	3,135	---	---	20,358	95,354
1927-----	22,005	---	19,965	6,809	557	18,150	4,984	2,926	---	---	19,694	96,020
1928-----	22,586	---	20,212	7,059	581	17,600	4,959	3,139	---	---	19,069	96,377
1929-----	22,876	2,549	16,664	7,523	636	16,830	5,046	3,162	---	---	18,520	94,902
1930-----	23,482	2,477	18,224	7,917	669	17,160	4,967	2,963	---	---	17,896	96,837
1931-----	23,871	2,430	17,738	7,352	630	18,150	4,823	3,157	---	---	17,327	96,565
1932-----	24,071	2,601	19,282	7,223	614	18,480	4,617	3,135	---	---	16,896	97,987
1933-----	23,565	2,513	20,481	7,402	587	16,500	4,478	2,692	68	390	16,464	95,849
1934-----	23,338	1,926	20,295	7,231	535	11,660	4,315	2,823	86	387	15,937	89,380

1935-----	23, 346	2, 864	19, 776	7, 207	557	13, 200	4, 465	3, 067	106	526	15, 284	971	91, 369	75, 114
1936-----	23, 624	2, 468	19, 168	7, 457	566	14, 080	4, 836	2, 644	137	489	14, 760	1, 030	91, 259	75, 469
1937-----	24, 100	3, 069	18, 292	7, 843	588	16, 610	4, 806	2, 793	168	514	14, 101	1, 088	93, 972	78, 783
1938-----	24, 556	3, 254	19, 263	7, 921	610	17, 490	4, 997	2, 990	214	642	13, 671	1, 063	96, 671	81, 937
1939-----	25, 089	3, 679	19, 734	8, 124	645	19, 360	5, 134	2, 859	290	653	13, 390	1, 035	99, 992	85, 567
1940-----	26, 194	3, 841	20, 874	8, 631	681	18, 590	5, 324	3, 360	392	666	13, 031	1, 017	102, 601	88, 553
1941-----	27, 270	4, 061	22, 866	8, 962	648	21, 340	6, 175	3, 900	472	679	12, 716	916	110, 005	96, 373
1942-----	27, 083	4, 005	24, 412	8, 420	641	26, 510	7, 004	4, 624	583	662	12, 481	780	117, 205	103, 944
1943-----	26, 735	3, 712	26, 082	7, 722	616	25, 960	7, 520	3, 936	553	759	12, 018	662	116, 275	103, 595
1944-----	27, 632	4, 077	27, 165	7, 480	644	20, 680	7, 316	4, 210	775	962	11, 449	584	112, 974	100, 941
1945-----	27, 062	4, 297	26, 374	7, 020	591	20, 790	7, 081	3, 572	619	928	10, 747	472	109, 553	98, 334
1946-----	27, 091	4, 412	26, 398	6, 298	551	20, 130	7, 161	3, 480	655	794	9, 865	386	107, 221	96, 970
1947-----	25, 896	4, 282	25, 382	5, 573	475	20, 240	7, 057	3, 044	789	746	9, 064	335	102, 883	93, 484
1948-----	26, 456	4, 748	24, 880	5, 086	384	20, 460	7, 124	3, 412	1, 099	1, 000	8, 316	297	103, 262	94, 649
1949-----	26, 840	4, 979	27, 164	5, 156	380	21, 780	7, 634	3, 069	1, 361	1, 062	7, 637	256	107, 318	99, 425
1950-----	26, 922	5, 231	29, 991	5, 316	371	23, 210	7, 504	3, 084	1, 690	1, 235	6, 934	213	111, 701	104, 554
1951-----	26, 107	6, 021	31, 320	5, 639	343	22, 660	7, 515	2, 778	1, 837	1, 364	6, 064	184	111, 832	105, 584
1952-----	27, 367	6, 365	34, 371	5, 936	351	20, 460	7, 467	2, 834	2, 035	1, 310	5, 321	166	113, 983	108, 496
1953-----	28, 064	6, 761	36, 028	6, 201	393	19, 140	7, 590	2, 673	2, 265	1, 509	4, 709	153	115, 486	110, 624
1954-----	28, 133	7, 790	35, 856	6, 295	447	21, 340	7, 745	2, 388	2, 345	1, 417	4, 224	146	118, 126	113, 756
1955-----	28, 771	7, 916	35, 516	6, 158	475	21, 450	7, 837	2, 369	2, 989	1, 656	3, 840	140	119, 117	115, 137
1956-----	29, 023	8, 168	34, 713	5, 990	487	20, 680	7, 940	2, 086	3, 285	1, 756	3, 481	136	117, 745	114, 128

1/ Includes grain-fattened cattle 1910 to 1928. The same relation was assumed between live-weight production of all cattle and calves, except milk cows, and production units from 1910 to 1928 as existed in 1929-33.

Table 7. - Index numbers of livestock production units, animal units fed, feed consumed, and production of all livestock and livestock products, excluding horses and mules, 1910-56 ^{1/}

(1947-49=100)

Year beginning October 1	Livestock production :		Animal units :		Feed :		All livestock and livestock products ^{4/}
	units :		fed :		consumed :		
	From all feed ^{2/}	From all concen- trates ^{3/}	Grain- consuming livestock	Grain-and- roughage- consuming livestock	Grain and other concen- trates	All feed in- cluding pasture	
1910-----	63	59	74	79	63	69	61
1911-----	62	58	73	77	59	71	61
1912-----	62	58	73	77	66	72	63
1913-----	65	60	75	79	59	72	64
1914-----	69	63	78	83	62	80	67
1915-----	71	64	80	86	68	82	66
1916-----	72	63	78	87	60	79	67
1917-----	75	68	81	89	68	82	68
1918-----	74	67	82	90	65	86	66
1919-----	73	65	80	88	65	84	64
1920-----	73	67	78	86	71	84	66
1921-----	76	72	82	87	71	84	71
1922-----	78	76	89	89	72	84	74
1923-----	78	73	88	88	73	82	73
1924-----	75	71	85	85	65	75	71
1925-----	76	72	84	83	73	78	74
1926-----	77	75	87	83	72	79	76
1927-----	79	77	88	84	75	79	76
1928-----	80	77	88	85	75	80	77
1929-----	79	77	89	88	74	75	78
1930-----	82	77	89	89	69	74	80
1931-----	82	80	92	92	78	81	81
1932-----	84	80	94	97	83	83	82
1933-----	82	75	91	98	71	74	75
1934-----	76	63	75	87	54	72	72
1935-----	78	69	81	89	68	73	77
1936-----	79	70	81	88	66	73	76
1937-----	82	77	81	87	74	82	79
1938-----	85	81	89	91	78	81	85
1939-----	89	86	94	95	82	86	87
1940-----	92	88	94	97	87	92	92
1941-----	101	98	102	104	97	103	102
1942-----	108	113	119	114	118	113	111
1943-----	108	111	120	117	116	113	105
1944-----	105	102	107	111	106	112	104
1945-----	103	100	104	106	109	108	101
1946-----	101	98	99	103	101	103	100
1947-----	98	96	96	99	92	96	97
1948-----	99	100	100	99	101	100	103
1949-----	104	104	104	102	107	103	107
1950-----	109	109	108	106	110	109	112
1951-----	110	109	108	110	113	112	112
1952-----	113	106	103	112	103	109	114
1953-----	115	105	102	113	106	111	117
1954-----	119	111	106	115	106	113	120
1955-----	120	114	109	116	112	114	122
1956-----	119	113	106	113	113	119	121

1/ See figures 1 and 2.

2/ Weighted by total feed consumed.

3/ Weighted by grain and other concentrates consumed.

4/ Weighted by the value of production. For calendar year beginning January 1 after year indicated in stub. See Changes in Farm Production and Efficiency, U. S. Dept. Agr. Statis. Bul. 233.

Table 8. - Concentrates fed per livestock-production unit, 1910-56

Year beginning October 1	Total concentrates fed 1/	Production units from grain	Concentrates fed per unit	Year beginning October 1	Total concentrates fed 1/	Production units from grain	Concentrates fed per unit
		Million tons	Tons			Million units	Tons
1910	101.4	117.8	0.86	1933	91.9	135.5	0.68
1911	92.2	116.4	.79	1934	71.4	117.3	.61
1912	107.4	117.4	.91	1935	94.1	125.6	.75
1913	91.0	120.2	.76	1936	75.5	127.0	.59
1914	93.6	126.3	.74	1937	97.0	136.9	.71
1915	108.3	127.1	.85	1938	99.0	142.2	.70
1916	92.5	125.8	.74	1939	102.2	149.9	.68
1917	107.6	133.7	.80	1940	108.0	151.5	.71
1918	102.0	132.1	.77	1941	118.7	167.2	.71
1919	101.7	129.0	.79	1942	142.1	189.4	.75
1920	110.5	131.5	.84	1943	139.0	185.7	.75
1921	107.9	140.2	.77	1944	128.9	171.2	.75
1922	106.2	145.3	.73	1945	132.5	166.7	.79
1923	111.2	140.9	.79	1946	122.7	163.2	.75
1924	96.8	136.0	.71	1947	110.6	159.1	.70
1925	106.9	137.2	.78	1948	120.1	163.7	.73
1926	103.4	140.4	.74	1949	126.5	170.1	.74
1927	107.7	142.9	.75	1950	130.4	176.4	.74
1928	107.2	142.8	.75	1951	132.4	174.6	.76
1929	104.9	141.0	.74	1952	122.1	169.7	.72
1930	95.6	141.2	.68	1953	126.0	167.8	.75
1931	103.7	144.2	.72	1954	126.3	176.3	.72
1932	111.1	144.9	.77	1955	132.0	180.3	.73
				1956	130.3	178.6	.73

1/ Includes corn in silage and skim milk fed as a liquid as reported in Grain and Feed Statistics, by the Agricultural Marketing Service, U. S. Dept. Agr. Statis. Bul. 159, 97 pp., 1957, and Supplement to same, March 1958.

Table 9. - All feed consumed per livestock-production unit, excluding horses and mules ^{1/}

Year beginning October 1	Production units	All feed consumed	Feed per production unit	
			Quantity	Index no. :(1947-49=100)
	Million units	Million tons	Tons	
1910-----	60.5	173.7	2.87	110
1911-----	59.3	178.9	3.02	115
1912-----	59.9	182.4	3.04	116
1913-----	62.3	181.1	2.91	111
1914-----	66.2	201.0	3.04	116
1915-----	67.7	206.1	3.05	115
1916-----	68.7	197.9	2.88	110
1917-----	72.2	207.2	2.87	109
1918-----	71.1	215.8	3.04	116
1919-----	69.5	211.4	3.04	115
1920-----	70.3	211.3	3.01	115
1921-----	73.2	210.4	2.87	111
1922-----	75.0	211.0	2.81	108
1923-----	74.6	207.5	2.78	105
1924-----	72.1	190.0	2.64	100
1925-----	73.0	197.4	2.70	103
1926-----	74.0	198.1	2.68	103
1927-----	75.4	198.8	2.64	100
1928-----	76.4	200.6	2.63	100
1929-----	75.6	188.2	2.49	95
1930-----	78.2	186.2	2.38	90
1931-----	78.5	203.4	2.59	99
1932-----	80.4	207.9	2.59	99
1933-----	78.7	185.9	2.36	90
1934-----	72.6	182.2	2.51	95
1935-----	75.1	183.5	2.44	94
1936-----	75.5	183.0	2.42	92
1937-----	78.8	205.5	2.61	100
1938-----	81.9	204.2	2.49	95
1939-----	85.6	217.0	2.54	97
1940-----	88.6	232.7	2.63	100
1941-----	96.4	258.4	2.68	102
1942-----	103.9	284.0	2.73	105
1943-----	103.6	285.4	2.75	105
1944-----	100.9	281.1	2.78	107
1945-----	98.3	270.9	2.76	105
1946-----	97.0	260.5	2.69	102
1947-----	93.5	242.9	2.60	98
1948-----	94.6	252.1	2.66	101
1949-----	99.4	260.2	2.62	99
1950-----	104.6	274.5	2.62	100
1951-----	105.6	282.3	2.67	102
1952-----	108.5	274.9	2.53	96
1953-----	110.6	278.6	2.52	96
1954-----	113.8	284.1	2.50	95
1955-----	115.1	286.7	2.49	95
1956-----	114.1	298.9	2.62	100

^{1/} Livestock-production units in this table are computed by weighting production by all feed consumed, including pasture.

